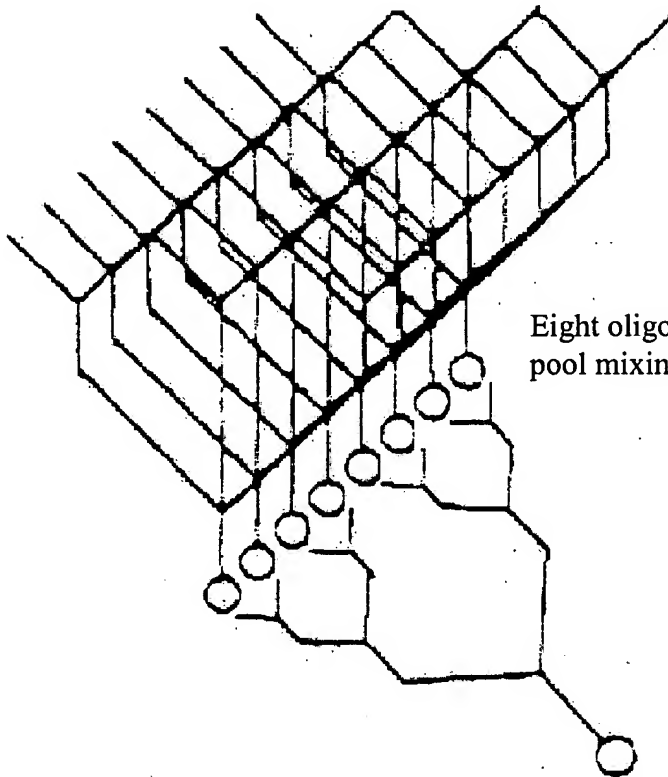


96 oligonucleotides  
48 pairs of overlapping  
50mers



Eight oligonucleotide  
pool mixing, 300 bs. double stranded

One oligonucleotide  
assembly, 2400 bs  
double stranded

Figure 9

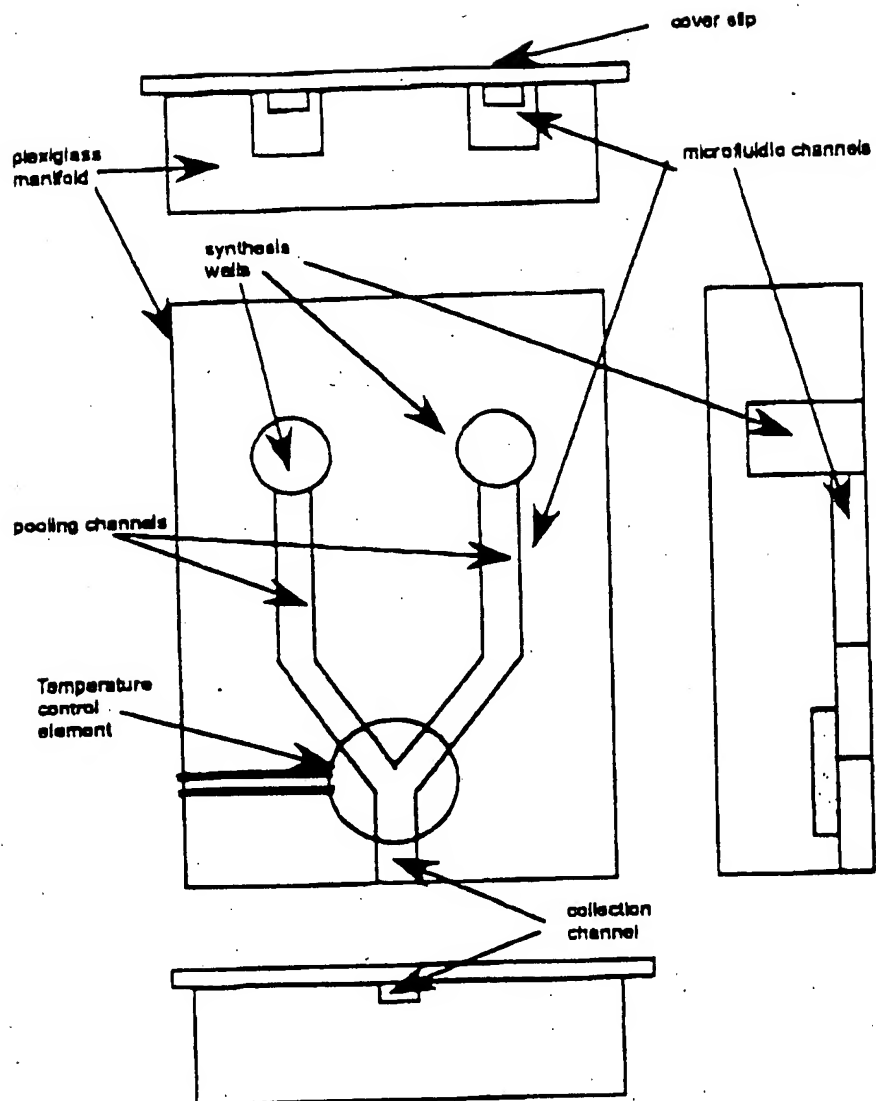


Figure 10

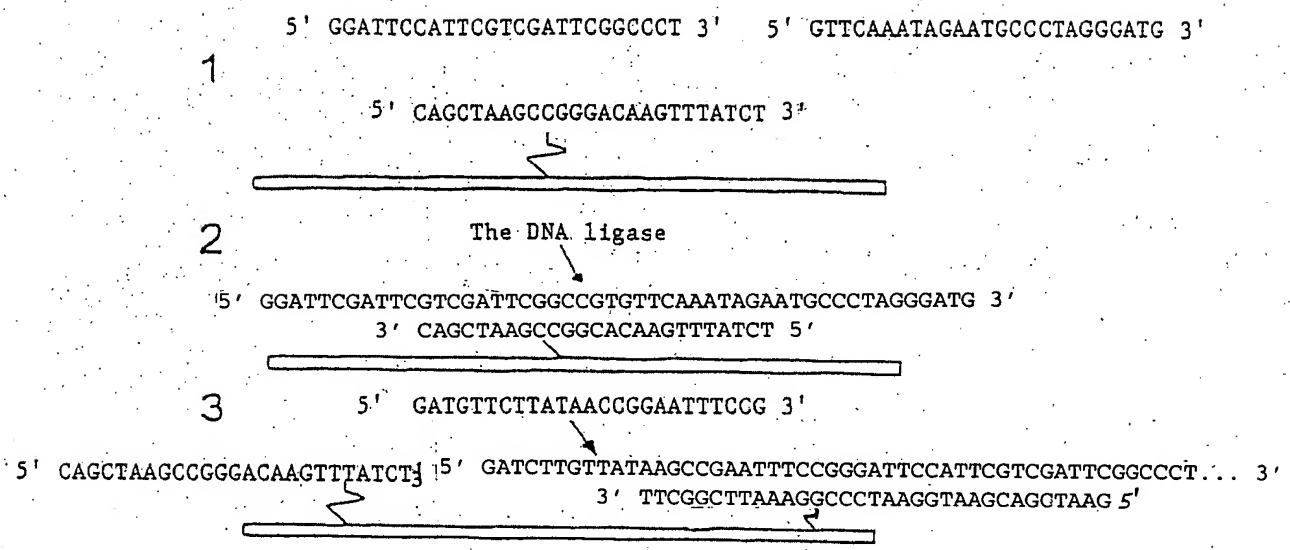


Figure 13

# Bidirectional primer extension strategy for gene assembly

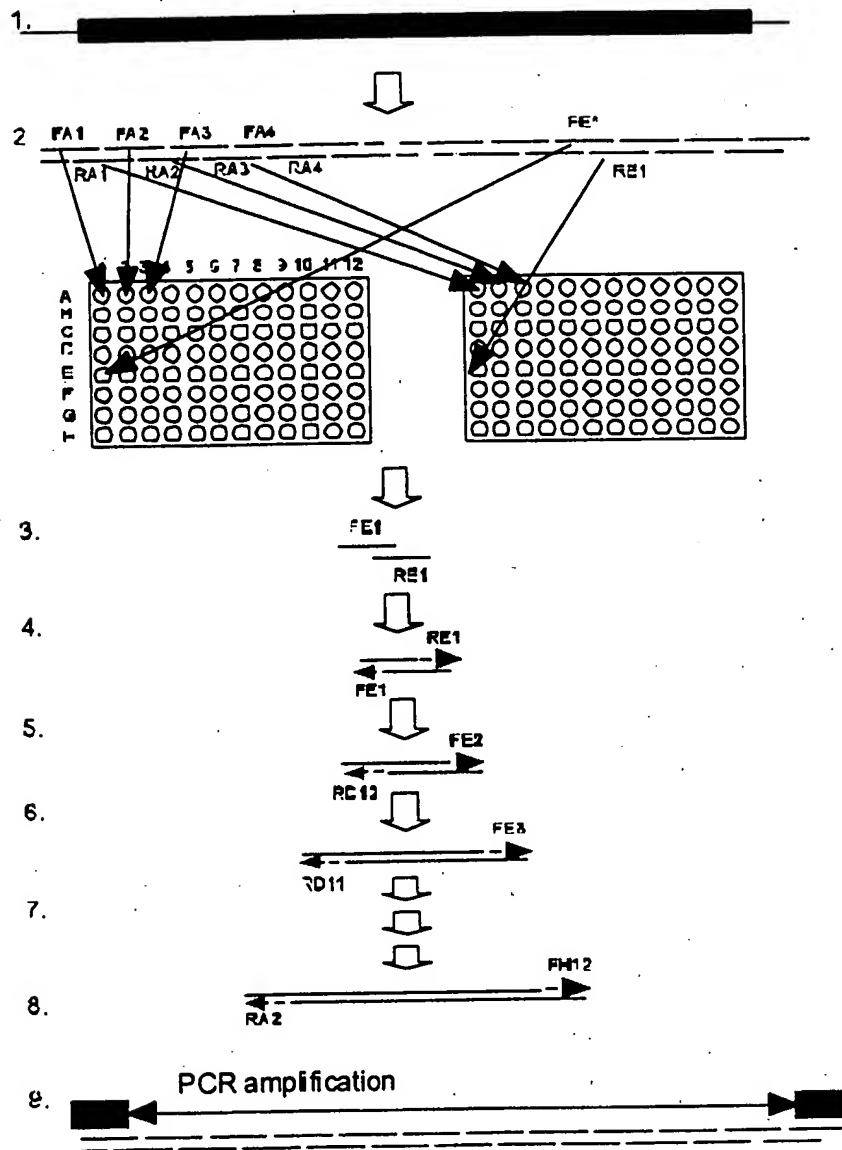


Figure 16

# Generation of self-assembling oligonucleotide arrays

## Option 1

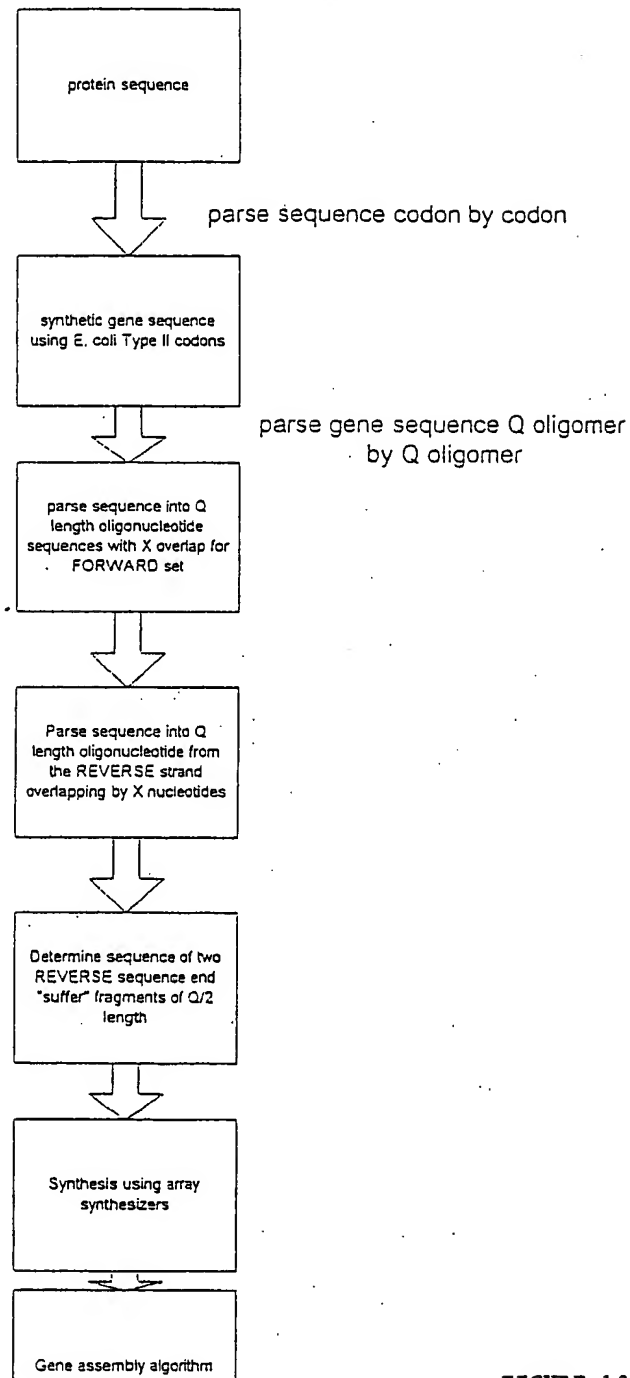


FIGURE 19

# Assembly of Self assembling oligonucleotide arrays

Option 1

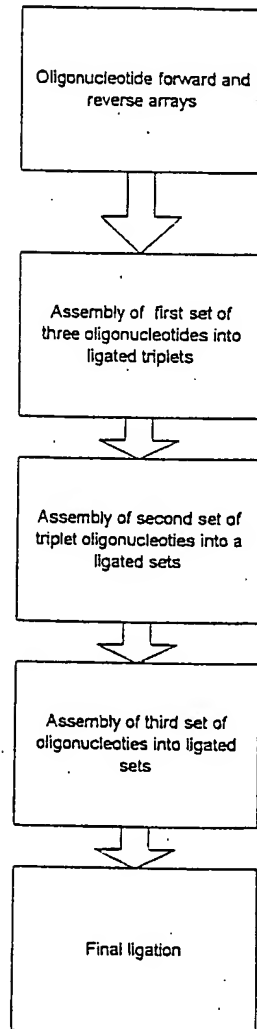


FIGURE 19

# Generation of self-assembling oligonucleotide arrays

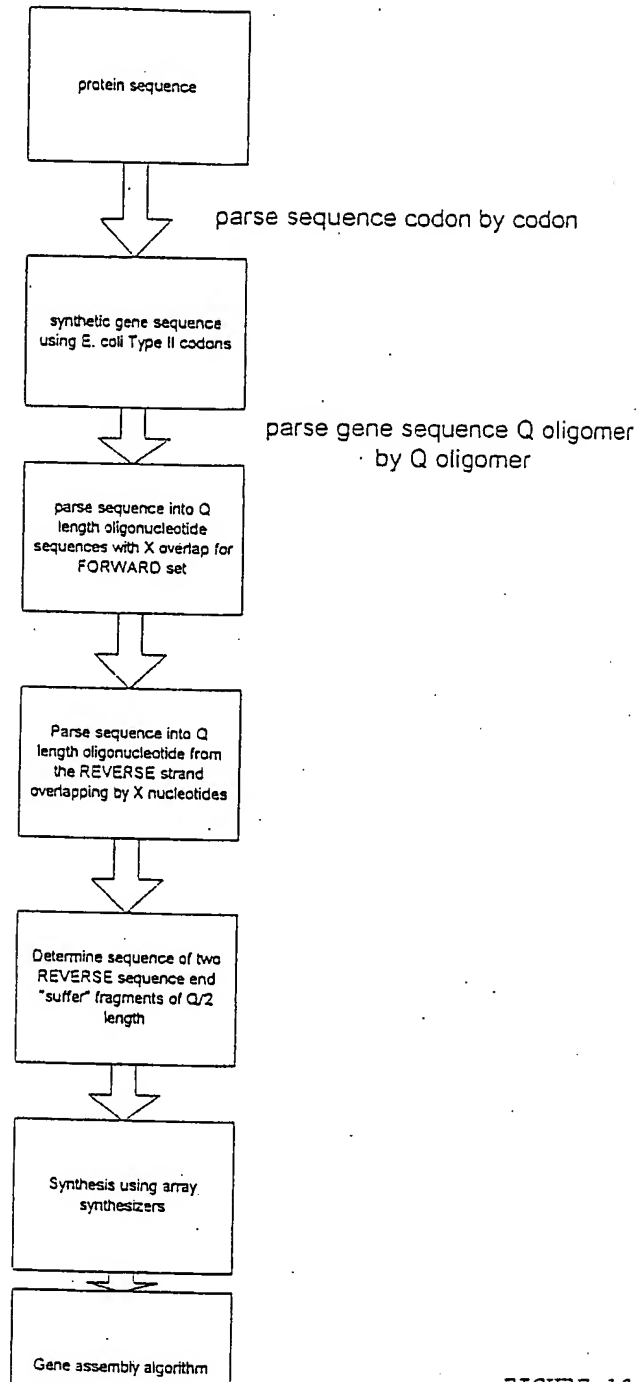


FIGURE 19